

Title (en)  
SPACER WITH IMPROVED ADHESION

Title (de)  
ABSTANDHALTER MIT VERBESSERTER HAFTUNG

Title (fr)  
ENTRETOISES À ADHÉRENCE AMÉLIORÉE

Publication  
**EP 4087996 B1 20231025 (DE)**

Application  
**EP 21700358 A 20210105**

Priority  
• EP 20150313 A 20200106  
• EP 2021050048 W 20210105

Abstract (en)  
[origin: WO2021140081A1] A spacer (I) for insulating glass units, comprising at least: - a polymeric hollow section (1) comprising a first side wall (2.1), a second side wall (2.2) disposed parallel thereto, and a glazing interior wall (3) which connects the side walls (2.1, 2.2) to each other; - an outer wall (5) which is disposed substantially parallel to the glazing interior wall (3) and connects the side walls (2.1, 2.2) to each other; - a cavity (5) which is enclosed by the side walls (2.1, 2.2), the glazing interior wall (3) and the outer wall (5); and - a moisture barrier (30) on the first side wall (2.1), the outer wall (5), and on the second side wall (2.2) of the polymeric hollow article (1), the moisture barrier (30) comprising at least - a multi-layer system having a barrier function (33) and comprising at least one polymeric layer (35) and an inorganic barrier layer (34), - a metallic or ceramic external adhesive layer (31), the adhesive layer (31) having a thickness of less than 100 nm, and - a binding layer (32), which is disposed between the adhesive layer (31) and the multi-layer system (33) and comprises a polymer selected from the group comprising oriented polypropylene, oriented polyethylene terephthalate, biaxially-oriented polypropylene and biaxially-oriented polyethylene terephthalate, and the binding layer (32) directly adjoins the adhesive layer (31).

IPC 8 full level  
**E06B 3/663** (2006.01); **B32B 9/00** (2006.01); **B32B 15/085** (2006.01); **B32B 15/09** (2006.01); **B32B 15/20** (2006.01); **B32B 27/32** (2006.01); **B32B 27/36** (2006.01)

CPC (source: EP KR US)  
**B32B 9/005** (2013.01 - EP KR); **B32B 15/085** (2013.01 - EP KR); **B32B 15/09** (2013.01 - EP KR); **B32B 15/20** (2013.01 - EP KR); **B32B 27/08** (2013.01 - US); **B32B 27/32** (2013.01 - EP KR US); **B32B 27/36** (2013.01 - EP KR US); **E06B 3/66314** (2013.01 - EP KR US); **E06B 3/66352** (2013.01 - US); **E06B 3/67321** (2013.01 - US); **B32B 2255/10** (2013.01 - EP KR US); **B32B 2255/20** (2013.01 - EP US); **B32B 2255/205** (2013.01 - EP KR US); **B32B 2307/516** (2013.01 - EP KR); **B32B 2307/518** (2013.01 - EP KR US); **B32B 2307/7265** (2013.01 - EP KR US); **B32B 2307/732** (2013.01 - US); **B32B 2323/10** (2013.01 - EP KR); **E06B 3/67343** (2013.01 - US); **E06B 2003/6638** (2013.01 - EP KR); **Y02A 30/249** (2018.01 - EP); **Y02B 80/22** (2013.01 - EP)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2021140081 A1 20210715**; AU 2021205987 A1 20220721; CA 3163021 A1 20210715; CA 3163021 C 20230919; CN 115176064 A 20221011; EP 4087996 A1 20221116; EP 4087996 B1 20231025; EP 4087996 C0 20231025; JP 2023503705 A 20230131; JP 7312331 B2 20230720; KR 20220123099 A 20220905; PL 4087996 T3 20240226; US 2023124735 A1 20230420

DOCDB simple family (application)  
**EP 2021050048 W 20210105**; AU 2021205987 A 20210105; CA 3163021 A 20210105; CN 202180019329 A 20210105; EP 21700358 A 20210105; JP 2022541846 A 20210105; KR 20227026604 A 20210105; PL 21700358 T 20210105; US 202117790887 A 20210105